

AMENDMENT AND PRESENTATION OF CLAIMS

Please replace all prior claims in the present application with the following claims, in which claims 23 through 58, 60 through 80, and 82 through 123 have been amended.

1 - 22 (Canceled)

23. (Currently Amended) ~~An apparatus comprising a processor and a memory storing executable instructions that in response to execution by the processor cause the apparatus to at least perform the following:~~

at least one processor; and

at least one memory including computer program code,

the at least one memory and the computer program code configured to, with the at least one processor, cause the apparatus to perform at least the following,

~~providing for sending~~ send an upload request to a recipient, the upload request comprising a request to upload content from the apparatus to the recipient, the content comprising a plurality of data packets;

~~providing for receiving,~~ receive from the recipient in response to the upload request, an upload schedule relating to at least one of ~~[[the]]~~ a time ~~[[or]]~~ and a manner of uploading the content in an upload session; ~~[[and]]~~

~~providing for~~ upload~~[[ing]]~~ the content to the recipient in accordance with the upload schedule;

after an interruption occurs in the upload session while uploading one of the plurality of data packets, receive an instruction to resume the upload session, the instruction including an identifier of the content and a pointer to the one interrupted packet; and

reestablish the upload session to upload to the recipient each of the remaining packets that is not completely uploaded.

24. (Currently Amended) An apparatus according to Claim 23, wherein ~~the memory is configured to store the content, and wherein the memory stores executable instructions that in response to execution by the processor cause the apparatus~~ is further caused to further perform:
~~deleting delete~~ the content from the memory after uploading the content to the recipient.

25. (Currently Amended) An apparatus according to Claim 23, wherein the upload schedule includes at least one instruction dependent upon a state of at least one of the recipient or the apparatus, and wherein ~~the memory stores executable instructions that in response to execution by the processor cause the apparatus~~ is further caused to further perform:
~~providing for receiving~~ receive information reflecting a current state of at least one of the recipient or the apparatus before uploading the content, wherein the apparatus uploads
~~providing for uploading the content comprises providing for uploading the content~~ based upon the at least one instruction dependent upon the state, and the information reflecting the current state of at least one of the recipient or the apparatus.

26. (Currently Amended) An apparatus according to Claim 25, wherein ~~providing for receiving information reflecting a current state comprises providing for receiving~~ the apparatus is further caused to receive information including at least one of a connectivity, location, actual movement or predicted movement of at least one of the recipient or the apparatus.

27. (Currently Amended) An apparatus according to Claim 23, wherein the upload schedule includes at least one instruction dependent upon a state of at least one network over which the content is uploaded, and wherein ~~the memory stores executable instructions that in response to execution by the processor cause the apparatus~~ is further caused to further perform:

~~providing for receiving~~ receive information reflecting a current state of the at least one network before uploading the content, wherein ~~providing for uploading the content comprises providing for uploading~~ the content is uploaded based upon the at least one instruction dependent upon the state, and the information reflecting the current state, of the at least one network.

28. (Currently Amended) An apparatus according to Claim 27, wherein ~~providing for receiving information comprises providing for receiving~~ the information including includes at least one of traffic on the at least one network or bandwidth available to at least one of the recipient or the apparatus on the at least one network.

29. (Currently Amended) An apparatus according to Claim 23, wherein the upload schedule includes at least one instruction defining processing the content, and wherein ~~the memory stores executable instructions that in response to execution by the processor cause the apparatus~~ is further caused to further perform: processing process the content, and upload wherein ~~providing for uploading the content comprises providing for uploading~~ the processed content.

30. (Currently Amended) An apparatus according to Claim 29, wherein the apparatus processes the content by ~~processing the content comprises~~ at least one of transcoding or truncating at least a portion of the content.

31. (Currently Amended) An apparatus according to Claim 29, wherein the apparatus processes the content by ~~processing the content comprises~~ breaking up the upload content into a plurality of portions.

32. (Currently Amended) An apparatus according to Claim 23, wherein the upload schedule includes at least one instruction defining at least one deadline for uploading the content, and wherein ~~providing for uploading the content comprises providing for uploading the content is~~ uploaded based upon the at least one deadline.

33. (Currently Amended) An apparatus according to Claim 23, wherein the content includes a plurality of pieces, wherein the upload schedule includes at least one instruction comprising an ordering of the plurality of pieces of the content, and wherein ~~providing for uploading the content comprises providing for uploading~~ at least a portion of the content is uploaded based upon the ordering of the plurality of pieces of the content.

34. (Currently Amended) An apparatus according to Claim 23, wherein the upload schedule includes at least one instruction based upon the content and at least one network over which the content is uploaded, and wherein ~~providing for uploading the content comprises providing for uploading the content is~~ uploaded based upon the content and the at least one network.

35. (Currently Amended) An apparatus according to Claim 23, wherein the upload schedule includes at least one instruction based upon at least one upload time of the content determined based upon the content and at least one network over which the content is uploaded, and wherein ~~providing for uploading the content comprises providing for uploading~~ the content is uploaded based upon the at least one upload time.

36. (Currently Amended) An apparatus according to Claim 23, ~~the memory stores executable instructions that in response to execution by the processor cause the apparatus is~~ further caused to further perform:

~~providing for receiving~~ receive a trigger to send an upload request, wherein ~~providing for sending an upload request comprises providing for sending an~~ the upload request is sent in response to the trigger independent of interaction from a user of the apparatus.

37. (Currently Amended) An apparatus according to Claim 23, ~~wherein the content comprises a plurality of data packets, wherein providing for sending an~~ the upload request comprises providing for sending is sent with an upload descriptor ~~and thereafter providing for uploading the content to thereby~~ that enables at least one of the apparatus or the recipient to determine if an interruption occurs in uploading the plurality of data packets such that the recipient receives less than the plurality of data packets of the content, and if an interruption occurs in uploading the plurality of data packets, ~~to thereby~~ enables the recipient to recover the content ~~based upon the upload descriptor such that the recipient receives the plurality of data packets.~~

38. (Currently Amended) An apparatus according to Claim ~~[[37]]~~23, wherein the apparatus is further caused to delete the uploaded content from a storage of the sender without interaction with a user of the sender, after completing the upload session ~~wherein providing for sending an upload descriptor and thereafter providing for uploading the content enables the recipient to recover the content if an interruption occurs in uploading the plurality of data packets, including enabling the recipient to determine at least one remaining data packet to be uploaded to the recipient to thereby complete uploading of the plurality of data packets of the content, and thereafter instruct the apparatus to send the at least one remaining data packet, providing for uploading the content including providing for uploading the at least one remaining data packet such that the recipient receives all of the content.~~

39. (Currently Amended) An apparatus according to Claim 23, ~~wherein the content comprises a plurality of data packets, and wherein providing for uploading the content comprises providing for uploading the plurality of data packets and at least one information packet regarding at least one group of at least one data packet.~~

40. (Currently Amended) An apparatus according to Claim 39, ~~wherein providing for uploading the plurality of data packets and~~ the apparatus is further caused to upload the at least one information packet that enables the recipient to monitor the uploaded data packets to determine, based upon at least one information packet, if an interruption occurs in uploading the plurality of data packets such that the recipient receives less than the plurality of data packets of the content, and if an interruption occurs in uploading the plurality of data packets, to thereby enable the recipient to recover the content such that the recipient receives the plurality of data packets.

41. (Currently Amended) An apparatus according to Claim 23, wherein ~~providing for uploading the content enables at least one of the apparatus or the recipient~~ is further caused to determine if an interruption occurs in uploading the content such that the recipient only receives a portion of the content, and

if an interruption occurs in uploading the content, ~~the executable instructions stored by the memory cause the apparatus~~ is further caused to further perform:

~~providing for receiving~~ receive a length of the received portion of the content, and thereafter ~~providing for uploading~~ upload a remaining portion of the content to ~~thereby recover the content such that the recipient receives all of the content.~~

42. (Currently Amended) An apparatus according to Claim 41, wherein ~~providing for uploading a remaining portion of the content comprises providing for uploading a~~ the remaining portion of the content is uploaded based upon a bit range of the remaining portion of the content.

43. (Currently Amended) An apparatus according to Claim 41, wherein ~~providing for receiving a length of the received portion of the content comprises providing for receiving a~~ the length of the received portion of the content is received in accordance with a hypertext transfer protocol (HTTP) HEAD technique, and the remaining portion of the content is uploaded in accordance with one of a HTTP POST or a HTTP PUT technique, wherein the one of the HTTP POST or HTTP PUT technique includes uploading the remaining portion of the content including header information comprising a bit range of the remaining portion of the content.

44. (Currently Amended) An apparatus according to Claim ~~[[43]]~~23, wherein the apparatus is further caused to send a hypertext transfer protocol (HTTP) HEAD request to the

~~recipient, and providing for uploading a remaining portion of the content comprises providing for~~
~~uploading a~~ the remaining portion of the content packets are uploaded in accordance with one of
a HTTP POST or a HTTP PUT technique, wherein the one of the HTTP POST or HTTP PUT
technique includes ~~providing for~~ uploading the remaining packets portion of the content
including header information comprising a [[bit]] packet range of the remaining packets portion
of the content.

45. (Currently Amended) An apparatus comprising ~~a processor and a memory storing~~
~~executable instructions that in response to execution by the processor cause the apparatus to at~~
~~least perform the following:~~

at least one processor; and

at least one memory including computer program code,

the at least one memory and the computer program code configured to, with the at least one
processor, cause the apparatus to perform at least the following,

receive an upload request from a sender, wherein the upload request comprises a request
to upload content from the sender to the apparatus, the content comprising a plurality
of data packets;

determine, in response to the request, an upload schedule relating to at least one of a time
and a manner of the sender uploading the content to the apparatus in an upload
session; and

receive an upload descriptor of the content and the content from the sender in accordance
with the upload schedule, the upload descriptor including a size of the content;
track received data packets and assemble a list of completely uploaded data packets
during the upload session; and

after an interruption occurs in the upload session while uploading one of the plurality of data packets, reestablish the upload session based upon the upload descriptor and the list of completely uploaded data packets to receive each of the remaining packets that is not completely uploaded.

~~providing for receiving a request to upload content from a sender to the apparatus;~~
~~determining, in response to the request, an upload schedule relating to at least one of the time or manner of the sender uploading the content to the apparatus; and~~
~~providing for receiving the content uploaded from the sender in accordance with the upload schedule.~~

46. (Currently Amended) An apparatus according to Claim 45, wherein ~~determining an upload schedule comprises determining an~~ the upload schedule ~~including~~ includes at least one instruction dependent upon a state of at least one of the apparatus or the sender, and wherein ~~providing for receiving the content comprises providing for receiving~~ the content is received based upon the at least one instruction dependent upon the state of at least one of the apparatus or the sender, and information reflecting a current state of at least one of the apparatus or the sender, the sender having received the information reflecting the current state before uploading the content to the apparatus.

47. (Currently Amended) An apparatus according to Claim 45, wherein ~~determining an upload schedule comprises determining an~~ the upload schedule ~~including~~ includes at least one instruction dependent upon a state of at least one network over which the content is uploaded, and ~~wherein providing for receiving the content comprises providing for receiving~~ the content is received based upon the at least one instruction dependent upon the state of the at least one

network, and information reflecting a current state of the at least one network, the sender having received the information reflecting the current state before uploading the content to the apparatus.

48. (Currently Amended) An apparatus according to Claim 45, wherein ~~determining an upload schedule comprises determining an~~ the upload schedule ~~including~~ includes at least one instruction defining processing the content to thereby direct the sender to process the content, and wherein ~~providing for receiving the content comprises providing for receiving the processed content~~ is received.

49. (Currently Amended) An apparatus according to Claim 45, wherein ~~determining an upload schedule comprises determining an~~ the upload schedule ~~including~~ includes at least one instruction defining at least one deadline for uploading the content, and wherein ~~providing for receiving the content comprises providing for receiving the content~~ is received based upon the at least one deadline.

50. (Currently Amended) An apparatus according to Claim 45, wherein the content includes a plurality of pieces, and wherein determining an upload schedule comprises ~~determining an upload schedule comprises determining an~~ the upload schedule ~~including~~ includes an ordering of the plurality of pieces of the content, and wherein ~~providing for receiving the content comprises providing for receiving~~ at least a portion of the content is received based upon the ordering of the plurality of pieces of the content.

51. (Currently Amended) An apparatus according to Claim 45, wherein ~~determining an upload schedule comprises determining an~~ the upload schedule ~~including~~ includes at least one

instruction based upon the content and at least one network over which the content is uploaded, and ~~wherein providing for receiving the content comprises providing for receiving the content is~~ received based upon the content and the at least one network.

52. (Currently Amended) An apparatus according to Claim 45, wherein ~~determining an upload schedule comprises determining an~~ the upload schedule ~~including~~ includes at least one instruction based upon at least one upload time of the content, and ~~wherein providing for receiving the content comprises providing for receiving the content is~~ received based upon the at least one upload time, the at least one upload time of the content being determined based upon the content and at least one network over which the content is uploaded.

53. (Currently Amended) An apparatus according to Claim 45, ~~wherein the content comprises a plurality of data packets, wherein the apparatus is further caused to~~ receive ~~providing for receiving the content comprises providing for receiving an upload descriptor and thereafter providing for receiving the plurality of data packets, wherein the memory stores executable instructions that in response to execution by the processor cause the apparatus to further perform:~~ determine if an interruption occurs in uploading the plurality of data packets such that the apparatus receives less than the plurality of data packets of the content; and if an interruption occurs in uploading the plurality of data packets, ~~recovering~~ recover the content based upon the upload descriptor ~~such that the apparatus receives the plurality of data packets.~~

54. (Currently Amended) An apparatus according to Claim 53, wherein recovering the content comprises:

determining at least one remaining data packet to be uploaded to the apparatus to thereby complete uploading of the plurality of data packets of the content;
~~providing for~~ instructing the sender to send the at least one remaining data packet; and
~~providing for~~ receiving the at least one remaining data packet such that the ~~recipient~~ apparatus receives the plurality of data packets.

55. (Currently Amended) An apparatus according to Claim 45, wherein the apparatus is further caused to push the upload schedule to the sender thereby automatically uploading the content in accordance with the upload schedule, the upload descriptor includes information of a preferred time, place and technology for uploading the content, and the upload session is interrupted by user intervention ~~the content comprises a plurality of data packets, and wherein providing for receiving the content comprises providing for receiving the plurality of data packets and at least one information packet regarding at least one group of at least one data packet.~~

56. (Currently Amended) An apparatus according to Claim ~~[[55]]~~45, wherein ~~the memory stores executable instructions that in response to execution by the processor cause the apparatus~~ is further caused to further perform:

~~monitoring~~ monitor the uploaded data packets to determine, based upon at least one information packet, if an interruption occurs in uploading the plurality of data packets such that the apparatus receives less than the plurality of data packets of the content; and if an interruption occurs in uploading the plurality of data packets, recover~~[[ing]]~~ the content such that the apparatus receives the plurality of data packets.

57. (Currently Amended) An apparatus according to Claim 45, wherein ~~the memory stores executable instructions that in response to execution by the processor cause the apparatus~~ is further caused to further perform:

~~determining if~~ determine an interruption occurs in uploading the content ~~such that~~ when the ~~recipient apparatus~~ only receives a portion of the content; [[and]]

if an interruption occurs in uploading the content, ~~providing for sending~~ send to the sender a length of the received portion of the content to thereby enable the sender to thereafter upload a remaining portion of the content; and

~~providing for receiving~~ receive a remaining portion of the content to thereby recover the content such that the apparatus receives all of the content.

58. (Currently Amended) A method ~~of uploading content~~ comprising:

~~providing for receiving~~ causing, at least in part, reception of an upload request from a sender at an apparatus, wherein the upload request comprises a request to upload content from the sender to the apparatus, the content comprising a plurality of data packets ~~a recipient~~;

~~determining~~ at the apparatus, in response to the request, an upload schedule relating to at least one of ~~[[the]]~~ a time ~~[[or]]~~ and a manner of the sender uploading the content to the apparatus in an upload session ~~recipient~~; and

~~providing for receiving~~ causing, at least in part, reception of an upload descriptor of the content and the content ~~uploaded~~ from the sender at the apparatus in accordance with the upload schedule, the upload descriptor including a size of the content;

tracking received data packets and assembling a list of completely uploaded data packets during the upload session at the apparatus; and

after an interruption occurs in the upload session while uploading one of the plurality of data packets, reestablishing by the apparatus the upload session based upon the upload descriptor and the list of completely uploaded data packets to receive each of the remaining packets that is not completely uploaded ~~wherein providing for receiving an upload request, determining an upload schedule and providing for receiving the content occur at the recipient, the recipient comprising a processor and a memory storing executable instructions that in response to execution by the processor cause the recipient to at least perform the determining an upload schedule.~~

59. (Canceled)

60. (Currently Amended) A method according to Claim 58, wherein ~~determining an~~ the upload schedule ~~comprises determining an upload schedule including~~ includes at least one instruction dependent upon a state of at least one of the ~~recipient~~ apparatus or the sender, and wherein ~~providing for receiving the content~~ is received based ~~comprises providing for receiving the content based upon the at least one instruction dependent upon the state of at least one of the recipient apparatus or the sender, and information reflecting a current state of at least one of the recipient apparatus or the sender, the sender having received the information reflecting the current state before uploading the content to the recipient apparatus.~~

61. (Currently Amended) A method according to Claim 60, wherein the state of at least one of the ~~recipient~~ apparatus or the sender comprises at least one of a connectivity, location, actual movement or predicted movement of at least one of the ~~recipient~~ apparatus or the sender.

62. (Currently Amended) A method according to Claim 58, wherein ~~determining an~~ the upload schedule ~~comprises determining an upload schedule including~~ includes at least one instruction dependent upon a state of at least one network over which the content is uploaded, and wherein ~~providing for receiving the content~~ is received based ~~comprises providing for receiving the content based upon the at least one instruction dependent~~ upon the state of the at least one network, and information reflecting a current state of the at least one network, the sender having received the information reflecting the current state before uploading the content to the ~~recipient~~ apparatus.

63. (Currently Amended) A method according to Claim 62, wherein the state of the at least one network comprises at least one of traffic on the at least one network or bandwidth available to at least one of the ~~recipient~~ apparatus or the sender on the at least one network.

64. (Currently Amended) A method according to Claim 58, wherein ~~determining an~~ the upload schedule ~~comprises determining an upload schedule including~~ includes at least one instruction defining processing the content, and wherein ~~providing for~~ receiving the content comprises ~~providing for~~ receiving the processed content.

65. (Currently Amended) A method according to Claim 64, wherein ~~determining an~~ the upload schedule ~~comprises determining an upload schedule including~~ includes at least one instruction defining at least one of transcoding or truncating at least a portion of the content, and wherein ~~providing for~~ receiving the content comprises ~~providing for~~ receiving the at least one of the transcoded or truncated portion of the content.

66. (Currently Amended) A method according to Claim 64, wherein ~~determining an~~ the upload schedule ~~comprises determining an upload schedule including~~ includes at least one instruction defining breaking up the upload content into a plurality of portions, and wherein ~~providing for receiving the content comprises providing for receiving the portions of the upload content.~~

67. (Currently Amended) A method according to Claim 58, wherein ~~determining an~~ the upload schedule ~~comprises determining an upload schedule including~~ includes at least one instruction defining at least one deadline for uploading the content, and wherein ~~providing for receiving the content comprises providing for receiving the content~~ is received based upon the at least one deadline.

68. (Currently Amended) A method according to Claim 58, wherein the content includes a plurality of pieces, wherein ~~determining an~~ the upload schedule ~~comprises determining an upload schedule including~~ includes at least one instruction comprising an ordering of the plurality of pieces of the content, and wherein ~~providing for receiving the content comprises providing for receiving at least a portion of the content based upon the ordering of the plurality of pieces of the content.~~

69. (Currently Amended) A method according to Claim 58, wherein ~~determining an~~ the upload schedule ~~comprises determining an upload schedule including~~ includes at least one instruction dependent based upon the content and at least one network over which the content is uploaded, and wherein ~~providing for receiving the content comprises providing for receiving the content~~ is received based upon the content and the at least one network.

70. (Currently Amended) A method according to Claim 58, wherein ~~determining an~~ the upload schedule ~~comprises determining an upload schedule including~~ includes at least one instruction dependent based upon at least one upload time of the content determined based upon the content and at least one network over which the content is uploaded, and wherein ~~providing for receiving the content comprises providing for receiving~~ the content is received based upon the at least one upload time.

71. (Currently Amended) A method according to Claim 58 further comprising:
~~providing for~~ sending a trigger to the sender to send an upload request before ~~providing for~~ receiving the upload request, wherein ~~providing for receiving an upload request~~ comprises providing for receiving an upload request is received in response to the trigger independent of interaction from a user of the sender.

72. (Currently Amended) A method according to Claim 58, ~~wherein the content~~ comprises a plurality of data packets, wherein ~~providing for receiving the content comprises~~ providing for receiving an upload descriptor and thereafter providing for receiving the content, and the method further comprising ~~comprises~~:

determining [[if]] an interruption occurs in uploading the plurality of data packets ~~such that~~ when the recipient apparatus receives less than the plurality of data packets of the content;
and

if an interruption occurs in uploading the plurality of data packets, recovering the content based upon the upload descriptor such that the ~~recipient~~ recipient apparatus receives the plurality of data packets.

73. (Currently Amended) A method according to Claim 72, wherein recovering the content comprises:

determining at least one remaining data packet to be received at the ~~recipient~~ apparatus to thereby complete uploading of the plurality of data packets of the content;
~~providing for~~ instructing the sender to send the at least one remaining data packet; and
~~providing for~~ receiving the at least one remaining data packet such that the ~~recipient~~ apparatus receives all of the content.

74. (Currently Amended) A method according to Claim 58, further comprising: pushing the upload schedule to the sender thereby automatically uploading the content in accordance with the upload schedule, wherein the upload descriptor includes information of a preferred time, place and technology for uploading the content, and the upload session is interrupted by user intervention ~~the content comprises a plurality of data packets, and wherein providing for receiving the content comprises providing for receiving the plurality of data packets and at least one information packet regarding at least one group of at least one data packet.~~

75. (Currently Amended) A method according to Claim ~~[[74]]~~58 further comprising:
monitoring the received data packets to determine, based upon at least one information packet, if an interruption occurs in uploading the plurality of data packets such that the ~~recipient~~ apparatus receives less than the plurality of data packets of the content; and
if an interruption occurs in uploading the plurality of data packets, recovering the content such that the ~~recipient~~ apparatus receives the plurality of data packets.

76. (Currently Amended) A method according to Claim 58 further comprising:

determining [[if]] an interruption occurs in uploading the content ~~such that~~ when the recipient apparatus only receives a portion of the content; [[and]]

if an interruption occurs in uploading the content, ~~providing for~~ sending a length of the received portion of the content to the sender; and

~~providing for~~ receiving a remaining portion of the content to thereby recover the content such that the ~~recipient~~ apparatus receives all of the content.

77. (Currently Amended) A method according to Claim 76, wherein ~~providing for~~ receiving a remaining portion of the content comprises ~~providing for~~ receiving a remaining portion of the content based upon a bit range of the remaining portion of the content.

78. (Currently Amended) A method according to Claim 76, wherein ~~providing for~~ sending a length of the received portion of the content comprises ~~providing for~~ sending a length of the received portion of the content in accordance with a hypertext transfer protocol (HTTP) HEAD technique, and the remaining portion of the content is received in accordance with one of a HTTP POST or a HTTP PUT technique, wherein the one of the HTTP POST or HTTP PUT technique includes receiving the remaining portion of the content including header information that includes a bit range of the remaining portion of the content.

79. (Currently Amended) A method according to Claim [[78]]58, further comprising receiving a hypertext transfer protocol (HTTP) HEAD request from the sender at the apparatus, wherein ~~providing for~~ receiving a remaining portion of the content comprises ~~providing for~~ receiving [[a]] the remaining packets ~~portion of the content~~ in accordance with one of a HTTP POST or a HTTP PUT technique, wherein the one of the HTTP POST or HTTP PUT technique

includes ~~providing for~~ receiving the remaining packets ~~portion of the content~~ including header information comprising a ~~[[bit]]~~ packet range of the remaining packets ~~portion of the content~~.

80. (Currently Amended) A computer program product for uploading content, the computer program product comprising at least one computer-readable storage medium having computer-readable program code portions stored therein that in response to execution by a processor, cause an apparatus to at least perform the following:

receiving an upload request from a sender, wherein the upload request comprises a request to upload content from the sender to the apparatus, the content comprising a plurality of data packets;

determining, in response to the request, an upload schedule relating to at least one of a time and a manner of the sender uploading the content to the apparatus in an upload session;
and

receiving an upload descriptor of the content and the content from the sender in accordance with the upload schedule, the upload descriptor including a size of the content;

tracking received data packets and assembling a list of completely uploaded data packets during the upload session; and

after an interruption occurs in the upload session while uploading one of the plurality of data packets, reestablishing the upload session based upon the upload descriptor and the list of completely uploaded data packets to receive each of the remaining packets that is not completely uploaded ~~providing for receiving an upload request from a sender, wherein the upload request comprises a request to upload content from the sender to the apparatus;~~
~~determining, in response to the request, an upload schedule relating to at least one of the time or manner of the sender uploading the content to the apparatus; and~~

~~providing for receipt of the content uploaded from the sender in accordance with the upload schedule.~~

81. (Canceled)

82. (Currently Amended) A computer program product according to Claim 80, wherein ~~determining an upload schedule comprises determining an~~ the upload schedule ~~including includes~~ at least one instruction dependent upon a state of at least one of the apparatus or the sender, and wherein ~~providing for receiving the content comprises providing for receiving the content is received~~ based upon the at least one instruction dependent upon the state of at least one of the apparatus or the sender, and information reflecting a current state of at least one of the apparatus or the sender, the sender having received the information reflecting the current state before uploading the content to the apparatus.

83. (Previously Presented) A computer program product according to Claim 82, wherein the state of at least one of the apparatus or the sender comprises at least one of a connectivity, location, actual movement or predicted movement of at least one of the apparatus or the sender.

84. (Currently Amended) A computer program product according to Claim 80, ~~determining an upload schedule comprises determining an~~ the upload schedule ~~including includes~~ at least one instruction dependent upon a state of at least one network over which the content is uploaded, and ~~wherein providing for receiving the content comprises providing for receiving the content is received~~ based upon the at least one instruction dependent upon the state of the at least one network, and information reflecting a current state of the at least one network,

the sender having received the information reflecting the current state before uploading the content to the apparatus.

85. (Previously Presented) A computer program product according to Claim 84, wherein the state of the at least one network comprises at least one of traffic on the at least one network or bandwidth available to at least one of the apparatus or the sender on the at least one network.

86. (Currently Amended) A computer program product according to Claim 80, wherein ~~determining an upload schedule comprises determining an~~ the upload schedule ~~including~~ includes at least one instruction defining processing the content to thereby direct the sender to process the content, and ~~wherein providing for receiving the content comprises providing for~~ receiving the processed content is received.

87. (Currently Amended) A computer program product according to Claim 86, wherein ~~determining an upload schedule comprises determining an~~ the upload schedule ~~including~~ includes at least one instruction defining at least one of transcoding or truncating at least a portion of the content, and wherein ~~providing for~~ receiving the content comprises ~~providing for~~ receiving the at least one of the transcoded or truncated portion of the content.

88. (Currently Amended) A computer program product according to Claim 86, wherein ~~determining an upload schedule comprises determining an~~ the upload schedule ~~including~~ includes at least one instruction defining breaking up the upload content into a plurality of portions, and wherein ~~providing for~~ receiving the content comprises ~~providing for~~ receiving the portions of the upload content.

89. (Currently Amended) A computer program product according to Claim 80, wherein ~~determining an upload schedule comprises determining an~~ the upload schedule ~~including~~ includes at least one instruction defining at least one deadline for uploading the content, and wherein ~~providing for receiving the content comprises providing for receiving~~ the content is received based upon the at least one deadline.

90. (Currently Amended) A computer program product according to Claim 80, wherein the content includes a plurality of pieces, and wherein determining an upload schedule comprises ~~determining an upload schedule comprises determining an~~ the upload schedule ~~including~~ includes an ordering of the plurality of pieces of the content, and ~~wherein providing for receiving the content comprises providing for receiving~~ at least a portion of the content is received based upon the ordering of the plurality of pieces of the content.

91. (Currently Amended) A computer program product according to Claim 80, wherein ~~determining an upload schedule comprises determining an~~ the upload schedule ~~including~~ includes at least one instruction based upon the content and at least one network over which the content is uploaded, and ~~wherein providing for receiving the content comprises providing for~~ ~~receiving~~ the content is received based upon the content and the at least one network.

92. (Currently Amended) A computer program product according to Claim 80, wherein ~~determining an upload schedule comprises determining an~~ the upload schedule ~~including~~ includes at least one instruction based upon at least one upload time of the content determined based upon the content and at least one network over which the content is uploaded, and ~~wherein~~

~~providing for receiving the content comprises providing for receiving~~ the content is received
based upon the at least one upload time.

93. (Currently Amended) A computer program product according to Claim 80, wherein
the apparatus is caused to further perform ~~the at least one computer readable storage medium has~~
~~computer readable program code portions stored therein that in response to execution by a~~
~~processor, cause an apparatus to further perform the following:~~

~~providing for~~ sending a trigger to the sender to send an upload request before ~~providing for~~
receiving the upload request, wherein ~~providing for receiving an upload request comprises~~
~~providing for receiving~~ an upload request is received in response to the trigger independent of
interaction from a user of the sender.

94. (Currently Amended) A computer program product according to Claim 80, wherein
the apparatus is caused to further perform: ~~the content comprises a plurality of data packets,~~
~~wherein providing for receiving the content comprises providing for~~

receiving an upload descriptor and thereafter ~~providing for~~ receiving the content, and ~~wherein~~
~~the at least one computer readable storage medium has computer readable program code~~
~~portions stored therein that in response to execution by a processor, cause an apparatus to~~
~~further perform the following:~~

determining if an interruption occurs in uploading the plurality of data packets such that the
apparatus receives less than the plurality of data packets of the content; and
if an interruption occurs in uploading the plurality of data packets, recovering the content
based upon the upload descriptor ~~such that the apparatus receives the plurality of data~~
~~packets.~~

95. (Currently Amended) A computer program product according to Claim 94, wherein recovering the content comprises:

determining at least one remaining data packet to be received at the apparatus to thereby complete uploading of the plurality of data packets of the content;
~~providing for~~ instructing the sender to send the at least one remaining data packet; and
~~providing for~~ receiving the at least one remaining data packet such that the apparatus receives all of the content.

96. (Currently Amended) A computer program product according to Claim 80, wherein the apparatus is caused to further perform: pushing the upload schedule to the sender thereby automatically uploading the content in accordance with the upload schedule, wherein the upload descriptor includes information of a preferred time, place and technology for uploading the content, and the upload session is interrupted by user intervention ~~the content comprises a plurality of data packets, and wherein providing for receiving the content comprises providing for receiving the plurality of data packets and at least one information packet regarding at least one group of at least one data packet.~~

97. (Currently Amended) A computer program product according to Claim 96, wherein ~~the at least one computer-readable storage medium has computer-readable program code portions stored therein that in response to execution by a processor, cause an apparatus~~ is caused to further perform ~~the following:~~

monitoring the received data packets to determine, based upon at least one information packet, if an interruption occurs in uploading the plurality of data packets such that the apparatus receives less than the plurality of data packets of the content; and

if an interruption occurs in uploading the plurality of data packets, recovering the content such that the apparatus receives the plurality of data packets.

98. (Currently Amended) A computer program product according to Claim 80, wherein ~~the at least one computer readable storage medium has computer readable program code portions stored therein that in response to execution by a processor, cause an apparatus~~ is caused to further perform ~~the following~~:

determining ~~[[if]]~~ an interruption occurs in uploading the content ~~such that~~ when the apparatus only receives a portion of the content; ~~[[and]]~~

if an interruption occurs in uploading the content, ~~providing for~~ sending a length of the received portion of the content to the sender; and

~~providing for~~ receiving a remaining portion of the content to thereby recover the content ~~such that the apparatus receives all of the content.~~

99. (Currently Amended) A computer program product according to Claim 98, wherein ~~providing for receiving a remaining portion of the content comprises providing for receiving a~~ the remaining portion of the content is received based upon a bit range of the remaining portion of the content.

100. (Currently Amended) A computer program product according to Claim 98, wherein ~~providing for~~ sending a length of the received portion of the content comprises ~~providing for~~ sending a length of the received portion of the content in accordance with a hypertext transfer protocol (HTTP) HEAD technique, and the remaining portion of the content is received in accordance with one of a HTTP POST or a HTTP PUT technique, wherein the one of the HTTP

POST or HTTP PUT technique includes receiving the remaining portion of the content including header information that includes a bit range of the remaining portion of the content.

101. (Currently Amended) A computer program product according to Claim 100, further comprising receiving a hypertext transfer protocol (HTTP) HEAD request from the sender at the apparatus, wherein ~~providing for~~ receiving a remaining portion of the content comprises ~~providing for~~ receiving ~~[[a]] the remaining packets portion of the content~~ in accordance with one of a HTTP POST or a HTTP PUT technique, wherein the one of the HTTP POST or HTTP PUT technique includes ~~providing for~~ receiving the remaining ~~packets portion of the content~~ including header information comprising a ~~[[bit]] packet range of the remaining packets portion of the content.~~

102. (Currently Amended) A ~~system~~ method comprising:

causing, at least in part, by an apparatus transmission of an upload request to a recipient, the upload request comprising a request to upload content from the apparatus to the recipient, the content comprising a plurality of data packets;
causing, at least in part, reception from the recipient at the apparatus in response to the upload request, an upload schedule relating to at least one of a time and a manner of uploading the content in an upload session;
uploading by the apparatus the content to the recipient in accordance with the upload schedule;
after an interruption occurs in the upload session while uploading one of the plurality of data packets, causing, at least in part, reception of an instruction at the apparatus to resume the

upload session, the instruction including an identifier of the content and a pointer to the
one interrupted packet; and
reestablishing by the apparatus the upload session to upload to the recipient each of the
remaining packets that is not completely uploaded.
~~a sender transmitter configured to send an upload request, wherein the upload request~~
~~comprises a request to upload content from the sender transmitter to a recipient receiver;~~
~~and~~
~~the recipient receiver configured to receive the upload request, and in response thereto,~~
~~determine an upload schedule relating to at least one of the time or manner of uploading~~
~~the content, and wherein the sender transmitter is configured to upload the content to the~~
~~recipient receiver in accordance with the upload schedule.~~

103. (Currently Amended) A ~~system~~ method according to Claim 102, ~~wherein the sender~~
~~transmitter is further configured to delete~~ further comprising deleting the content from the
memory of ~~the sender transmitter~~ after uploading the content to the recipient receiver.

104. (Currently Amended) A ~~system~~ method according to Claim 102, wherein the upload
schedule includes at least one instruction dependent upon a state of at least one of the recipient
~~receiver~~ or the apparatus ~~sender transmitter~~, and wherein the method ~~sender transmitter~~ is further
~~configured to receive~~ comprising receiving information reflecting a current state of at least one of
the recipient ~~receiver~~ or the apparatus ~~sender transmitter~~ before uploading the content to thereby
enable the apparatus ~~sender transmitter~~ to upload the content based upon the at least one
instruction dependent upon the state, and the information reflecting the current state, of at least
one of the recipient ~~receiver~~ or the apparatus ~~sender transmitter~~.

105. (Currently Amended) A ~~system~~ method according to Claim 104, ~~wherein the sender transmitter is configured to receive~~ further comprising receiving information reflecting a current state comprising at least one of a connectivity, location, actual movement or predicted movement of at least one of the recipient ~~receiver~~ or the apparatus ~~sender transmitter~~.

106. (Currently Amended) A ~~system~~ method according to Claim 102, wherein the upload schedule includes at least one instruction dependent upon a state of at least one network over which the content is uploaded, and wherein the method further comprising receiving ~~sender transmitter is further configured to receive~~ information reflecting a current state of the at least one network before uploading the content to thereby enable the apparatus ~~sender transmitter~~ to upload the content based upon the at least one instruction dependent upon the state, and the information reflecting the current state, of the at least one network.

107. (Currently Amended) A ~~system~~ method according to Claim 106, ~~wherein the apparatus sender transmitter is configured to receive~~ further comprising receiving information comprising at least one of traffic on the at least one network or bandwidth available to at least one of the recipient ~~receiver~~ or the apparatus ~~sender transmitter~~ on the at least one network.

108. (Currently Amended) A ~~system~~ method according to Claim 102, wherein the upload schedule includes at least one instruction defining processing the content, and wherein the method further comprising processing ~~sender transmitter is further configured to process~~ the content ~~[[to]]~~ thereby ~~enable the sender transmitter to uploading~~ the processed content.

109. (Currently Amended) A ~~system~~ method according to Claim 108, ~~wherein the apparatus sender transmitter is configured to~~ further comprising at least one of ~~transcode or truncate~~ transcoding and truncating at least a portion of the content ~~[[to]]~~ thereby ~~enable the sender transmitter to~~ uploading the at least one of the transcoded or truncated portion of the content.

110. (Currently Amended) A ~~system~~ method according to Claim 108, ~~wherein the sender transmitter is configured to~~ further comprising breaking up the upload content into a plurality of portions to thereby ~~enable the sender transmitter to~~ uploading the portions of the upload content.

111. (Currently Amended) A ~~system~~ method according to Claim 102, wherein the upload schedule includes at least one instruction defining at least one deadline for uploading the content, and wherein the method further comprising ~~sender transmitter is configured to~~ uploading the content based upon the at least one deadline.

112. (Currently Amended) A ~~system~~ method according to Claim 102, wherein the content includes a plurality of pieces, wherein the upload schedule includes at least one instruction comprising an ordering of the plurality of pieces of the content, and wherein the method further comprising ~~sender transmitter is configured to~~ uploading at least a portion of the content based upon the ordering of the plurality of pieces of the content.

113. (Currently Amended) A ~~system~~ method according to Claim 102, wherein the upload schedule includes at least one instruction based upon the content and at least one network over

which the content is uploaded, and wherein the method further comprising sender transmitter is configured to uploading the content based upon the content and the at least one network.

114. (Currently Amended) A ~~system~~ method according to Claim 102, wherein the upload schedule includes at least one instruction based upon at least one upload time of the content determined based upon the content and at least one network over which the content is uploaded, and wherein the method further comprising sender transmitter is configured to uploading the content based upon the at least one upload time.

115. (Currently Amended) A ~~system~~ method according to Claim 102, ~~wherein the sender transmitter is further configured to receive~~ further comprising receiving a trigger to send an upload request before ~~providing for~~ sending the upload request, and ~~wherein the sender transmitter is configured to sending~~ the upload request in response to the trigger independent of interaction from a user of the sender ~~transmitter~~.

116. (Currently Amended) A ~~system~~ method according to Claim 102, ~~wherein the content comprises a plurality of data packets, and wherein the sender transmitter is configured to send further comprising sending~~ an upload descriptor and thereafter uploading the content, ~~wherein at least one of the sender transmitter or the recipient receiver is configured to determine~~

determining if an interruption occurs in uploading the plurality of data packets such that the recipient ~~receiver~~ receives less than the plurality of data packets of the content, and ~~wherein,~~ if an interruption occurs in uploading the plurality of data packets, enabling the recipient ~~receiver is configured~~ to recover the content based upon the upload descriptor such that the recipient ~~receiver~~ receives the plurality of data packets.

117. (Currently Amended) A ~~system~~ method according to Claim 116, further comprising deleting the uploaded content from a storage of the sender without interaction with a user of the sender, after completing the upload session ~~wherein the recipient receiver being configured to recover the content includes being configured to determine at least one remaining data packet to be uploaded to the recipient receiver to thereby complete uploading of the plurality of data packets of the content, and thereafter instruct the sender transmitter to send the at least one remaining data packet such that the recipient receiver receives the at least one remaining data packet.~~

118. (Currently Amended) A ~~system~~ method according to Claim 102, wherein the content comprises a plurality of data packets, and wherein the ~~sender transmitter is configured to~~ method further comprising uploading the plurality of data packets and at least one information packet regarding at least one group of at least one data packet.

119. (Currently Amended) A ~~system~~ method according to Claim 118, further comprising: uploading the at least one information packet that enables ~~wherein the recipient receiver is configured to monitor the uploaded data packets to determine, based upon at least one information packet, if an interruption occurs in uploading the plurality of data packets such that the recipient receiver receives less than the plurality of data packets of the content, and wherein,~~
if an interruption occurs in uploading the plurality of data packets, ~~the recipient receiver is configured to~~ recovering the content such that the recipient ~~receiver~~ receives the plurality of data packets.

120. (Currently Amended) A ~~system~~ method according to Claim 102, ~~wherein at least one of the sender transmitter or the recipient receiver is configured to determine~~ further comprising:

determining if an interruption occurs in uploading the content such that the recipient ~~receiver~~ only receives a portion of the content, and ~~wherein,~~

if an interruption occurs in uploading the content, ~~the sender transmitter is configured to receive~~ receiving a length of the received portion of the content to thereby ~~enable the sender transmitter to thereafter~~ uploading a remaining portion of the content to ~~thereby recover the content such that the recipient receiver receives all of the content.~~

121. (Currently Amended) A ~~system~~ method according to Claim 120, ~~wherein the sender transmitter is configured to~~ further comprising uploading a remaining portion of the content based upon a bit range of the remaining portion of the content.

122. (Currently Amended) A ~~system~~ method according to Claim 120, ~~wherein the sender transmitter is configured to receive~~ further comprising receiving a length of the received portion of the content in accordance with a hypertext transfer protocol (HTTP) HEAD technique; and uploading the remaining portion of the content in accordance with one of a HTTP POST or a HTTP PUT technique, wherein the one of the HTTP POST or HTTP PUT technique includes uploading the remaining portion of the content including header information comprising a bit range of the remaining portion of the content.

123. (Currently Amended) A ~~system~~ method according to Claim 122, ~~wherein the sender transmitter is configured to~~ further comprising: sending a hypertext transfer protocol (HTTP) HEAD request to the recipient; and uploading the remaining portion of the content packets are

uploaded in accordance with one of a HTTP POST or a HTTP PUT technique, wherein the one of the HTTP POST or HTTP PUT technique includes ~~providing for~~ uploading the remaining packets ~~portion of the content~~ including header information comprising a [[bit]] packet range of the remaining packets ~~portion of the content~~.